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ENCLOSURE B

DESCRIPTION OF DRV POL SYSTEM

1. (S) The petroleum facilities of North Vietnam are limited to those required to receive, store, and distribute imported refined products; there are no oil fields or refineries. Total national bulk POL storage capacity before US air attacks, plus what has been constructed since, would amount to about 216,000 MT. Though this has been reduced by attacks to 179,000 MT remaining, it is substantially in excess of the tankage which would be required for efficient storage and distribution to the areas in which the remaining facilities are located. Thus some storage tanks may not now be in use, and others may serve as stockpile storage rather than for handling normal throughput.

2. (S) POL imports in 1965 totaled some 170,000 MT. About 95 percent of POL imports normally enter the country by bulk ocean-going tanker deliveries to the port of Haiphong, and the remaining 5 percent, mostly lubricants, enter by rail from China. Tankers arriving at Haiphong moor some six miles downstream, whence bulk lighters move the products to piers for pumping to the storage tanks. Normally distribution from Haiphong to other bulk storage depots is primarily by rail tank cars.

3. (S) POL imports in 1964 consisted of approximately 35 percent motor gasoline; 7 percent kerosene; 50 percent diesel fuel; and 8 percent of other products (lubricants, jet and aviation fuel, etc). The military forces use approximately 60 percent of national consumption, primarily for fueling military motor transport. The remainder is consumed almost entirely by the POL-powered components of the government-operated transportation system, in both land vehicles and inland and coastal waterway carriers. Household and industrial consumption is limited.

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4. (S) There are thirteen known and **targeted** bulk POL storage facilities of significance in the DRV, which undamaged would comprise an estimated 209,000 MT capacity. Strike of four of these has reduced this total to some 172,000 MT (including 4000 MT residual in those struck). An additional 7,000 MT is in a number of small dispersed facilities which have not been **targeted**. Total in-country capacity is thus some 179,000 MT, of which 7,000 MT is untargeted, 4,000 MT is residual capacity in targets previously attacked, and 168,000 MT or 94 percent is in nine principal, targeted, but as yet unattacked facilities.

5. (S) The thirteen targeted facilities are grouped below by location with respect to populated areas. (See Appendix A for geographic locations and Appendix B for salient features, with target photographs attached):

a. The following are located in lightly populated urban areas or outskirts of larger cities:

<u>Tgt #</u>	<u>Name</u>	<u>Location</u>	<u>Metric Ton Capacity</u>	<u>% of National Capacity</u>	<u>% Target Capacity Remaining</u>	
	Haiphong POL Stor	205219N/ 1063930E	72,000	33.3	100	25X1
	Hanoi POL Stor Thanh AM	210341N/ 1055348E	34,000	15.7	100	
	Vinh POL Stor	184009N/ 1054315E	18,000*	8.3	11	
	Bac Giang POL Stor	211600N/ 1061158E	6,000	2.8	100	
	Nam Dinh POL Stor	202443N/ 1061039E	12,000**	5.6	17 (inactive)	
	Do Son POL Stor	204230N/ 1064730E	8,000	3.7	100	
	Viet Tri POL Stor	211746N/ 1052608E	4,000	1.9	100	

b. The following are located in lightly populated or isolated rural areas:

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<u>Tgt #</u>	<u>Name</u>	<u>Location</u>	<u>Metric Ton Capacity</u>	<u>% of National Capacity</u>	<u>% Target Capacity Remaining</u>	
	Phu Van POL Stor	185055N/ 1051940E	1,000***	0.5	0	25X1
	Nguyen Khe POL Stor SE	211008N/ 1055129E	13,000	6.0	100	
	Phuc Yen POL Stor NNE UG	211604N/ 1055026E	14,000	6.5	100	
	Phu Qui POL Stor	191300N/ 1052130E	10,000****	4.6	20	
	Duong Nham POL Stor UG	210146N/ 1063050E	14,000	6.5	100	
	Kep POL Stor	212335N/ 1061839E	3,000	1.4	100	
			209,000	96.8		

* Capacity reduced from 18,000 metric tons to 6,000 metric tons in 5 August 1964 attack and to 2,000 metric tons by attack in ROLLING THUNDER 16 (24 May - 3 June 1965).

** Capacity reduced from 12,000 metric tons to 2,000 metric tons by attack in ROLLING THUNDER 21 (2 - 8 July 1965). Installation inactive; useful capacity zero.

*** Capacity reduced from 1,000 metric tons to zero by attack in ROLLING THUNDER 13 (30 April - 6 May 1965).

**** Capacity reduced from 10,000 metric tons to 2,000 metric tons by attack in ROLLING THUNDER 15 (18 - 24 May 1965).

6. (S) During the past year, construction has begun on a series of small dispersed buried POL storage areas. Nine areas have been discovered so far, varied in size from 7 to 94 tanks. Each tank is fifteen feet long and five feet in diameter with a capacity of 2,200 US gallons (7 MT). Estimated total capacity of the nine areas is about 1800 MT. Fabrication of additional tanks has been noted. There may well be more such storage areas as yet undetected, and the construction of additional appears to be planned.

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